BANGALORE WATER SUPPLY AND SEWERAGE BOARD

Office of the CE (Project)

Cauvery Bhavan III Floor, Bangalore 560009

No. BWSSB/CE(P)/ACE (P)-1,2/ 477 /2025-26 Dt: 5 .05.2025
06

Addendum No. 2

Name of the Work: Design, Engineering, Construction and Commissioning of Wastewater Treatment Plants with Tertiary Treatment Facility, Biogas Generation & Solar Sludge Drying Bed and Intermediate Sewage Pumping Station along with Operation & Maintenance thereof for Ten Years [Works - A] and Procurement and Construction of Rising Main, Main Sewers and Laterals including Machine holes and Lift Sewage Pumping Stations [Works – B] Hybrid Mode for Bommanahalli Zone in 110 Village Areas (Phase-II) Under Karnataka Water Security and Disaster Resilience Program (KWSDRP) – (Contract Package No. BWSSB CE-P/KWSDRP/WBS-III).

Ref:

1. Tender Notification NO.BWSSB/CE(P)/ACE(P)-1,2/141/2025-26 Dtd:29.04.2025
2. INDENT No. BWSSB/2025-26/WT/WORK_INDENT2255

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In continuation to the above Tender Notification cited under reference, an Addendum-II with respect to subject tender work is issued as enclosed

Other conditions remain unaltered.

Chief Engineer (P)
Bangalore Water Supply and Sewerage Board,
Bangalore

Contract Package: WBS-3

Addendum No. 2

Amendment in Volumes be referred as under

Sr. No.	Tender Ref.	Existing Contents of Tender Document	Amended
1.	**Volume-2 / Section-7, Cl. No. 12.3, Part 12-3**	**12.3 Power Supply Arrangement** WwTP: The outgoings of the 11kV indoor panel for plant distribution shall feed • 2 Nos. of 11/0.433kV Distribution Transformers for WwTP plant loads. • 2 Nos. of 11/0.433kV Distribution Transformers for Process Air Blowers loads.	**Shall be read as** **12.3 Power Supply Arrangement** For Iblur, U M Kaval and Hulimavu WwTPs/TSPS The outgoings of the 11kV indoor panel for plant distribution shall feed • 2 Nos. of 11/0.433kV Distribution Transformers for WwTP plant loads and Process Air Blowers loads. For Anjanapura WwTP/TSPS The outgoings of the 11kV indoor panel for plant distribution shall feed • 2 Nos. of 11/0.433kV Distribution Transformers for WwTP plant loads. • 2 Nos. of 11/0.433kV Distribution Transformers for Process Air Blowers loads. All other requirements shall remain same as per Tender Document.
2.	**Volume-2 / Section-7, Cl. No. 12.4.10, Part 12-9**	**12.4.10 Standby Diesel Generator Sets** Diesel Generator Sets shall be provided with Acoustic Enclosure and AMF panel with Air Circuit Breaker (ACB) at WwTP/TSPS/ISPS and sized for power back up of all the WwTP/TSPS/ISPS loads which requires continuous operation of the corresponding WwTP/TSPS/ISPS plant during main power failure. 10% contingency over these loads shall be considered while sizing the DG Set.	**Shall be read as** **12.4.10 Standby Diesel Generator Sets** Diesel Generator Sets shall be provided with Acoustic Enclosure and AMF panel at each • WwTP/TSPS and sized for power back up of minimum 50% of the WwTP/TSPS loads including Air Blower Loads of the corresponding WwTP/TSPS plant during main power failure.

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			• ISPS and sized for power back up of minimum 50% of the ISPS loads during main power failure. 10% contingency over these loads shall be considered while sizing the DG Set. For Anjanapura WwTP, separate DGs shall be provided for Air Blower loads and WwTP/TSPS plant loads. All other requirements shall remain same as per Tender Document.
3.	Volume-2 / Section-7, Cl. No. 12.4.11, Part 12-9 & Cl. No. 6.5, Part 6-29	**12.4.11 415V PCC / MCC** **6.5 415V Metal Enclosed Switchgears (PCC / MCC)**	Add the following paragraph below the Cl. No. 12.4.11 & Cl. No. 6.5 "All 415V Metal Enclosed Switchgears (PCC/MCC) shall be conventional type. IMCC/Intelligent MCC is not required" All other requirements shall remain same as per Tender Document.

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<table>
<tr><th>Sr. No.</th><th>Tender Ref.</th><th>Existing Contents of Tender Document</th><th>Amended</th></tr>
<tr><td>4.</td><td>Volume-2 / Section-7, Cl. No. 15.22.1, Part 5-45, Part 5-50, Part 5-57, Part 5-64, Part 5-86, Part 5-90</td><td>
15.22.1 TSPS & WwTPs Design/Sizing Criteria
<table>
<tr><th>Item/ Parameter/ Description</th><th>Units</th><th>WwTP at Ibbuluru</th><th>WwTP at U M Kaval</th><th>WwTP at Hulimavu</th></tr>
<tr><td>N-1 condition</td><td>-</td><td>The Bidder shall provide calculations for operating the WwTP at Design Flows with 1 tank/ unit/ module offline for maintenance.</td><td>The Bidder shall provide calculations for operating the WwTP at Design Flows with 1 tank/ unit/ module offline for maintenance.</td><td>The Bidder shall provide calculations for operating the WwTP at Design Flows with 1 tank/ unit/ module offline for maintenance.</td></tr>
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<tr><th>Item/ Parameter/ Description</th><th>Units</th><th>WwTP at Ibbuluru</th><th>WwTP at U M Kaval</th><th>WwTP at Hulimavu</th></tr>
<tr><td>N-1 condition</td><td>-</td><td>The Bidder shall provide calculations for operating the WwTP at Design Flow with 1 IFAS tank/unit/module offline for maintenance.</td><td>The Bidder shall provide calculations for operating the WwTP at Design Flow with 1 IFAS tank/unit/module offline for maintenance.</td><td>The Bidder shall provide calculations for operating the WwTP at Design Flow with 1 IFAS tank/unit/module offline for maintenance.</td></tr>
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Shall be read as

15.22.1 TSPS & WwTPs Design/Sizing Criteria
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<tr><td>N-1 condition</td><td></td><td>Deleted</td><td>Deleted</td><td>Deleted</td></tr>
</table>
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<tr><th>Item/ Parameter/ Description</th><th>Units</th><th>WwTP at Ibbuluru</th><th>WwTP at U M Kaval</th><th>WwTP at Hulimavu</th></tr>
<tr><td>N-1 condition</td><td></td><td>Deleted</td><td>Deleted</td><td>Deleted</td></tr>
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Sr. No.	Tender Ref.	Existing Contents of Tender Document	Amended

Existing Contents of Tender Document

Item/ Parameter/ Description	Units	WwTP at Ibbuluru	WwTP at U M Kaval	WwTP at Hulimavu
N-1 condition	-	The Bidder shall provide calculations for operating the WwTP at Design Flow with 1 MBBR tank/unit/module offline for maintenance.	The Bidder shall provide calculations for operating the WwTP at Design Flow with 1 MBBR tank/unit/module offline for maintenance.	The Bidder shall provide calculations for operating the WwTP at Design Flow with 1 MBBR tank/unit/module offline for maintenance.

Item/ Parameter/ Description	Units	WwTP at Ibbuluru	WwTP at U M Kaval	WwTP at Hulimavu
N-1 condition	-	The Bidder shall provide calculations for operating the WwTP at Design Flow with 1 SBR tank offline for maintenance.	The Bidder shall provide calculations for operating the WwTP at Design Flow with 1 SBR tank offline for maintenance.	The Bidder shall provide calculations for operating the WwTP at Design Flow with 1 SBR tank offline for maintenance.

Item/ Parameter/ Description	Units	WwTP at Anjanapura
N-1 condition		The Bidder shall provide calculations

Amended

Item/ Parameter/ Description	Units	WwTP at Ibbuluru	WwTP at U M Kaval	WwTP at Hulimavu
N-1 condition		Deleted	Deleted	Deleted

Item/ Parameter/ Description	Units	WwTP at Ibbuluru	WwTP at U M Kaval	WwTP at Hulimavu
N-1 condition		Deleted	Deleted	Deleted

Item/ Parameter/ Description	Units	WwTP at Anjanapura
N-1 condition		Deleted

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<table>
<tr><td></td><td></td><td>for operating the WwTP at Design Flows with 1 tank/unit/module offline for maintenance.</td></tr>
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<tr><th>Item/ Parameter/ Description</th><th>Units</th><th>WwTP at Anjanapura</th></tr>
<tr><td>N-1 condition</td><td></td><td>The Bidder shall provide calculations for operating the WwTP at Design Flow with 1 SBR tank offline for maintenance.</td></tr>
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<tr><th>Item/ Parameter/ Description</th><th>Units</th><th>WwTP at Anjanapura</th></tr>
<tr><td>N-1 condition</td><td></td><td>Deleted</td></tr>
</table>
All other requirements shall remain same as per Tender Document.
</td></tr>
<tr><td>5.</td><td>Volume-2 / Section-7, Cl. No. 15.22.1, Part 5-67 & Part 5-92</td><td>
15.22.1 TSPS & WwTPs Design/Sizing Criteria
<table>
<tr><th>Item/ Parameter/ Description</th><th>Units</th><th>WwTP at Hulimavu</th></tr>
<tr><td>Total number of standby blowers</td><td>Nos</td><td>2</td></tr>
</table>
&
15.22.1 TSPS & WwTPs Design/Sizing Criteria
<table>
<tr><th>Item/ Parameter/ Description</th><th>Units</th><th>WwTP at Anjanapura</th></tr>
<tr><td>Total number of standby</td><td>Nos</td><td>2</td></tr>
</table>
</td><td>
Shall be read as
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<table>
<tr><th>Item/ Parameter/ Description</th><th>Units</th><th>WwTP at Hulimavu</th></tr>
<tr><td>Total number of standby blowers</td><td>Nos</td><td>1</td></tr>
</table>
&
15.22.1 TSPS & WwTPs Design/Sizing Criteria
<table>
<tr><th>Item/ Parameter/</th><th>Units</th><th>WwTP at Anjanapura</th></tr>
</table>
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<tr><td></td><td></td><td>
<table>
<tr><td>blowers</td><td></td><td></td></tr>
<tr><td>Type of Blower</td><td></td><td>Centrifugal Turbo Blower with VFD Control</td></tr>
</table>
</td><td>
<table>
<tr><td>Description</td><td></td><td></td></tr>
<tr><td>Total number of standby blowers</td><td>Nos</td><td>1</td></tr>
<tr><td>Type of Blower</td><td></td><td>Rotary Tri-Lobe PD with VFD Control / Single stage centrifugal blower with VFD Control / Centrifugal Turbo Blower with VFD Control</td></tr>
</table>
All other requirements shall remain same as per Tender Document.
</td></tr>
<tr><td>6.</td><td>Volume-2 / Section-7, Cl. No. 15.22.1, Part 5-85</td><td>
15.22.1 TSPS & WwTPs Design/Sizing Criteria
<table>
<tr><th>Item/ Parameter/ Description</th><th>Units</th><th>WwTP at Anjanapura</th></tr>
<tr><td>Type of clarifier</td><td></td><td>Plate Settlers with scum collection and removal system. Scraper shall be center-column supported with center drive.</td></tr>
<tr><td>MOC of plate</td><td></td><td>SS 304</td></tr>
</table>
</td><td>
Shall be read as

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<table>
<tr><th>Item/ Parameter/ Description</th><th>Units</th><th>WwTP at Anjanapura</th></tr>
<tr><td>Type of clarifier</td><td></td><td>Plate / Tube Settlers with scum collection and removal system. Scraper shall be center-column supported with center drive.</td></tr>
<tr><td>MOC of plate / tube</td><td></td><td>SS 304 Plate / uPVC Tube</td></tr>
</table>
All other requirements shall remain same as per Tender Document.
</td></tr>
<tr><td>7.</td><td>Volume 2 Part-8, Cl. No. 8.35, Part 8-167 and Part 8-168</td><td>
Disc Filter- fully Submerged.
<table>
<tr><td>Control panel</td><td></td><td></td></tr>
<tr><td>Type</td><td>:</td><td>Self-standing / Wall Mounting type, PLC based controls with HMI Screen of 10 inches. PLC shall be provided with Hardwired communication protocol</td></tr>
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Shall be Read as

Disc Filter- fully Submerged.
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<tr><td></td><td></td><td>
<table>
<tr><td></td><td></td><td>interfacing with Plant SCADA system.</td></tr>
<tr><td>MOC of control panel</td><td>:</td><td>Stainless Steel SS-304 / SS-316</td></tr>
<tr><td>Protection Class</td><td>:</td><td>IP-55 & suitable for outdoor mounting.</td></tr>
</table>
</td><td>
<table>
<tr><td>Type</td><td>:</td><td>HMI Screen of 10 inches. PLC shall be provided with Hardwired communication protocol interfacing with Plant SCADA system.</td></tr>
<tr><td>MOC of control panel Cabinet only</td><td>:</td><td>Stainless Steel SS-304 / SS-316.</td></tr>
<tr><td>Protection Class</td><td>:</td><td>IP-55 & suitable for outdoor mounting</td></tr>
</table>

All other requirements shall remain same as per Tender Document.
</td></tr>
<tr><td>8.</td><td>Volume 2 Part-13, Cl. No. 13.2, Part 13-6</td><td>The PLC / RIO Panels shall be double door conformal coating with sand blasting and having a minimum panel size of 900mm & Height not to exceed 2000mm, Gland plate-2mm, copper earth bus 25x6 mm, and panel painting is RAL 7035 (with interior Brilliant White Glassy Finish) with Ingress Protection of IP-54. The panel's front view shall be a lockable double door with transparent glass windows, allowing visibility to the panel-mounted HMI and controllers, etc. The Material of Construction for Panels shall be SS-316.</td><td>Shall be Read as

The PLC / RIO Panels shall be double door conformal coating with sand blasting and having a minimum panel size of 900mm & Height not to exceed 2000mm, Gland plate-2mm, copper earth bus 25x6 mm, and panel painting is RAL 7035 (with interior Brilliant White Glassy Finish) with Ingress Protection of IP-54. The panel's front view shall be a lockable double door with transparent glass windows, allowing visibility to the panel-mounted HMI and controllers, etc. The Material of Construction for all Panels shall be followed as per Clause No.7.10.II & III,Part-7 in volume-2 of the tender document. The Material of Construction of Disc Filter control panel (cabinet only) shall be SS304/ SS-316.</td></tr>
</table>

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<tr><td>9.</td><td>Volume 2 Part-5, Cl. No. 15.22.1, Part 5-40, Part 5-41</td><td>15.22.1 TSPS & WwTPs Design/Sizing Criteria
<table>
<tr><th>Item/ Parameter/ Description</th><th>Units</th><th>WwTP at Hulimavu</th></tr>
<tr><td>No of Compartments in each wet wells.</td><td>Nos</td><td>2</td></tr>
<tr><td>No of Pumps - Working</td><td>Nos</td><td>4</td></tr>
<tr><td>No of Pumps - Standby</td><td>Nos</td><td>2</td></tr>
<tr><td>No of dewatering pumps - Working</td><td>Nos</td><td>2</td></tr>
<tr><td>No of dewatering pumps - Standby</td><td>Nos</td><td>2</td></tr>
</table></td><td>Shall be read as

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<table>
<tr><th>Item/ Parameter/ Description</th><th>Units</th><th>WwTP at Hulimavu</th></tr>
<tr><td>No of Compartments in each wet wells.</td><td>Nos</td><td>1</td></tr>
<tr><td>No of Pumps - Working</td><td>Nos</td><td>3</td></tr>
<tr><td>No of Pumps - Standby</td><td>Nos</td><td>1</td></tr>
<tr><td>No of dewatering pumps - Working</td><td>Nos</td><td>1</td></tr>
<tr><td>No of dewatering pumps - Standby</td><td>Nos</td><td>1</td></tr>
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Chief Engineer (P)
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